

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the above-captioned application:

Listing of Claims:

Claims 1-26 (Canceled)

Claim 27 (Currently Amended): ~~The artificial~~ Artificial antibodies comprising a crosslinked polymer prepared by molecular imprint polymerization and having specific binding sites, wherein said artificial antibodies have a particle size of less than about five microns.

Claim 28 (Previously Presented): The artificial antibodies according to claim 27, wherein said particle size is between about 10 nm and 100 nm.

Claim 29 (Previously Presented): The artificial antibodies according to claim 27, wherein said specific binding sites are specific for drug molecules.

Claim 30 (Previously Presented): The artificial antibodies according to claim 29, wherein said drug molecule is theophylline.

Claim 31 (Previously Presented): The artificial antibodies according to claim 29, wherein said drug molecule is a benzodiazepine drug.

Claim 32 (Previously Presented): The artificial antibodies according to claim 29, wherein said drug molecule is diazepam.

Claim 33 (Previously Presented): The artificial antibodies according to claim 29, wherein said drug molecule has a narrow therapeutic index.

Claim 34 (Currently Amended): A method for assaying a drug molecule in a fluid, said method comprising the combination of steps:

- 1) providing a fluid sample with a drug molecule,
- 2) adding a known amount of labeled drug molecule to said sample,
- 3) contacting said sample of step 2) with the artificial antibodies according to claim 27 so that said drug molecule and said labeled drug molecule in said sample of step 2) competitively bind with said artificial antibodies; and
- 4) determining the amount of said labeled drug molecule unbound in said sample or bound to said artificial antibody so as to determine the amount of said drug molecule in said fluid.

Claim 35 (Currently Amended): The method according to claim 34, wherein said labeled drug molecule includes a label, ~~where said label is~~ selected from the group consisting of radioligands, enzymes, biotin, steroids, fluorochrome, electrochemiluminescent compounds, and gold.

Claim 36 (Currently Amended): The artificial antibodies according to claim 27,
wherein said particle size is between about 10 nm and 1000 nm.

Claim 37 (Currently Amended): The method ~~artificial antibodies~~ according to
claim 34, wherein artificial antibody size is between about 10 nm and 100 nm.

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Claim 38 (Currently Amended): The method ~~artificial antibodies~~ according to
claim 34, wherein artificial antibody size is between about 10 nm and 1000 nm.

Claims 39-45 (Canceled)
